

DERWENT-ACC-NO: 1988-359027
DERWENT-WEEK: 198850
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TITLE: Induction motor hollow rotor - has magnetic core made from sheets of electrical steel

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PRIORITY-DATA: 1986SU-4140349 (July 2, 1986)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
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| SU 1385187 A | March 30, 1988 | N/A | 003 | N/A |

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO | APPL-DATE |
|-------------|-----------------|----------------|--------------|
| SU 1385187A | N/A | 1986SU-4140349 | July 2, 1986 |

INT-CL_(IPC): H02K001/22

ABSTRACTED-PUB-NO: SU 1385187A

BASIC-ABSTRACT: The motor comprises of the stator (1) with three-phase winding (2), shaft (3) with hollow rotor (4), short-circuited winding (5) and magnetic core (6) made from a bent sheet.

The inner core (7) freely rotates on bearings (8) against shaft (3). During start, the inner core (7) acquires rotational speed of the rotor (4) with a delay, and during the motor braking condition, the inner core (7) deeps rotating after the rotor (4) stops.

This ensures a small momentum of the rotor inertia at significal power and momentum on the shaft. USE/ADVANTAGE - In drive systems and automaice devices of low inertia current motors.

Hollow rotor working reliability and economy of magnetic core material are improved, therefore the motor reliability is increased due to the increased mechanical rigidity of its rotor audits lowered mass-dimensi on. The rotor

inertia is lowered by decreasing its wall thickness. The motor mechanical characteristics are improved by using the rotor core as an additional "squirrel cage", and its efficiency is raised due to a decreased slip during its operation in a steady state. Bul.12/30.3.88

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS:

INDUCTION MOTOR HOLLOW ROTOR MAGNETIC CORE MADE SHEET
ELECTRIC STEEL

DERWENT-CLASS: X11

EPI-CODES: X11-J01;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1988-271805

